

Name_____

In-Vitro Fertilization and Embryonic Development Assessment

1. Compare and contrast natural fertilization and in vitro fertilization.
2. How do the morula and the blastocyst relate to embryonic and fetal development?
3. How did the Octomom have eight babies?
4. If Octomon and her doctors had followed the guidelines for the maximum number of embryos to be implanted, what could have happened to the remaining embryos?
5. What are pluripotent stem cells and why are they important in medicine?
6. Compare how scientists would derive a totipotent stem cell line from a morula versus a pluripotent stem cell line from a blastocyst?
7. What is Preimplantation Genetic Diagnosis (PGD) and how would it help a family choosing in vitro fertilization?
8. How do stem cells relate to PGD?
9. What are some drawbacks of PGD?

